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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/671,070	09/24/2003	Rama Bhatt	200144.404	5866
500 7590 06/14/2007 SEED INTELLECTUAL PROPERTY LAW GROUP PLLC 701 FIFTH AVE			EXAMINER	
			RAO, DEEPAK R	
	SUITE 5400 SEATTLE, WA 98104		ART UNIT	PAPER NUMBER
·			1624	
			MAIL DATE	DELIVERY MODE
			06/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/671,070	BHATT ET AL.			
Office Action Summary	Examiner	Art Unit			
	Deepak Rao	1624			
The MAILING DATE of this communication appearing for Reply	ppears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 10	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a side will apply and will expire SIX (6) MON atte, cause the application to become Aling date of this communication, even if	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
2a) This action is FINAL . 2b) ⊠ Th	·—				
3) Since this application is in condition for allow	•	•			
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.			
Disposition of Claims	·				
4) ⊠ Claim(s) 1,3-10 and 12-18 are pending in the same state of the above claim(s) is/are withdrest of the same state of the same	rawn from consideration.				
Application Papers					
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according an applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the sheet of the shee	ccepted or b) objected to e drawing(s) be held in abeyar ection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents. * See the attached detailed Office action for a list. 	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		s)/Mail Date nformal Patent Application 			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 10, 2007 has been entered.

Claims 1, 3-10 and 12-18 are pending in this application.

Withdrawn Rejections/Objections:

Applicant is notified that any outstanding rejection/objection that is not expressly maintained in this office action has been withdrawn or rendered moot in view of applicant's amendments and/or remarks.

Based on the biological activity data provided in the specification, applicant submits that 'contrary to the expectation of similar properties for structural homologs, the assay results for compounds that differ by having a CH₃ group in place of H at R¹ and R² unexpectedly showed significantly improved IC₅₀ and therefore, the instantly claimed compounds would not be prima facie obvious to one of ordinary skill in the art in view of the prior art compounds'.

Election/Restrictions

In the previous office action, the search and examination was based on the elected species of Compound no. 177. Based on the election of species guidelines, the prior art search was

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conducted to the extent of the compounds of formula (recited in claim 1) wherein X and Y are N, Z is CH or CR; Q is NH; R^3 is NH₂; and R, R^1 , R^2 , R^4 , R^5 , R^6 and R^7 are as defined in the claims, the art found was applied.

As the prior art rejections of the previous office action have been overcome, the search was extended to the extent of the compounds of the formula (recited in claim 1) wherein Q is NR; X, Y, Z, R and R¹-R⁷ are as defined in the claims. The other definitions of Q from the generic claims, other than that indicated above for the searched subgenus, are held withdrawn from consideration (i.e., Q is RN-(CH₂)_n or (CH₂)_n-NR, where n is 1-10 are withdrawn), pursuant to 37 CFR 1.142(b) and the guidelines of MPEP 803.02, as being drawn to non elected subject matter.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 3, 10, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grant et al., WO 02/12198 (published February 14, 2002). The reference teaches pyrimidine-4amine compounds that are structurally analogous to instantly claimed compounds. See the compounds represented by structural formula (II) disclosed in page 6 and the corresponding species, e.g., compound 44 in Table IV (page 48). The compounds are taught to be useful as pharmaceutical agents, see the abstract. The instant compounds differ from the reference compounds by having two substituents on the phenyl ring that is attached to the pyrimidinyl group at a position different from the reference compounds, i.e., at the 2- and 5-positions as compared to 3- and 5-positions for the reference compound. As a compound according to instant claims can be arrived at by making a single change in the position of the substituent, i.e., changing the 3-position substituent to the 2-position, the instantly claimed compounds are structurally isomeric to the reference compounds. It would have been obvious to one having ordinary skill in the art at the time of the invention to prepare the instantly claimed compounds because they are positional isomers of the reference compounds. One having ordinary skill in the art would have been motivated to prepare the instantly claimed compounds because such isomeric compounds are suggestive of one another and would be expected to share similar properties and therefore, the same use as taught for the reference compounds, i.e., as pharmaceutical agents. It has been held that a compound, which is structurally isomeric with a compound of prior art is prima facie obvious absent unexpected results. In re Finley, 81 USPO

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383 (CCPA 1949); *In re Norris*, 84 USPQ 458 (CCPA 1950); *In re Dillon*, 919 F.2d at 696, 16 USPQ2d at 1904 (Fed. Cir. 1990).

Allowable Subject Matter

Claims 4-9 and 13-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim (to the extent of the searched and examined subgenus described under election/restriction) and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deepak Rao whose telephone number is (571) 272-0672. The examiner can normally be reached on Monday-Friday from 8:00am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson, can be reached at (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Deepak Rao

Primary Examiner
Art Unit 1624

June 11, 2007